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NEWS 9
         Jun 03 New e-mail delivery for search results now available
NEWS 10 Jun 10 MEDLINE Reload
NEWS 11 Jun 10 PCTFULL has been reloaded
NEWS 12 Jul 02 FOREGE no longer contains STANDARDS file segment
NEWS 13 Jul 22
                  USAN to be reloaded July 28, 2002;
                   saved answer sets no longer valid
NEWS 14 Jul 29 Enhanced polymer searching in REGISTRY
NEWS 15 Jul 30 NETFIRST to be removed from STN
NEWS 16 Aug 08 CANCERLIT reload
NEWS 17 Aug 08 PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 18 Aug 08 NTIS has been reloaded and enhanced
NEWS 19 Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE)
                   now available on STN
NEWS 20 Aug 19 IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS 21 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded
NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced
NEWS 23 Sep 03 JAPIO has been reloaded and enhanced
NEWS 24 Sep 16 Experimental properties added to the REGISTRY file
NEWS 25 Sep 16 Indexing added to some pre-1967 records in CA/CAPLUS
NEWS 26 Sep 16 CA Section Thesaurus available in CAPLUS and CA
NEWS 27 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985
NEWS 28 Oct 21 EVENTLINE has been reloaded
NEWS 29 Oct 24 BEILSTEIN adds new search fields
NEWS 30 Oct 24 Nutraceuticals International (NUTRACEUT) now available on STN
NEWS 31 Oct 25 MEDLINE SDI run of October 8, 2002
NEWS EXPRESS October 14 CURRENT WINDOWS VERSION IS V6.01,
               CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP),
               AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002
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=> s inflammatory bowel disease

95588 INFLAMMATORY

9435 BOWEL

560751 DISEASE

L1 2916 INFLAMMATORY BOWEL DISEASE (INFLAMMATORY(W)BOWEL(W)DISEASE)

=> s vitamin D

149912 VITAMIN

1925013 D

L2 20243 VITAMIN D

(VITAMIN(W)D)

=> s vitamin D3

149912 VITAMIN

30859 D3

L3 8681 VITAMIN D3

(VITAMIN(W)D3)

=> s 11 and 12

L4 17 L1 AND L2

=> s 11 and 13

=> d 15 1-4 ibib hitstr abs

L5 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 2002:314727 CAPLUS

DOCUMENT NUMBER: 136:339498

TITLE: Methods for treating IL-18 mediated disorders INVENTOR(S): Sims, John E.; Mohler, Kendall M.; Born, Teresa L.

PATENT ASSIGNEE(S): Immunex Corporation, USA SOURCE: PCT Int. Appl., 53 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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KIND DATE
                                                                            APPLICATION NO. DATE
         PATENT NO.
          ---- ----
                                                                             _____
                                                                             WO 2001-US32460 20011017
         WO 2002032374
                                        A2
                                                  20020425
         WO 2002032374
                                       А3
                                                20020919
               W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
         US 2002098185
                                                                            US 2002-981421 20020118
                                       A1 20020725
                                                                       US 2000-241408P P 20001018
PRIORITY APPLN. INFO.:
         The invention pertains to methods for treating medical disorders
         characterized by elevated levels or abnormal expression of IL-18 by
         administering an IL-18 antagonist, such as sol. IL-18 receptor, a sol.
         IL-18 binding protein and/or an antibody.
```

L5 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 2001:147266 CAPLUS

DOCUMENT NUMBER: 134:364800

TITLE: Receptor polymorphisms and diseases

AUTHOR(S): Csaszar, A.; Abel, T.

CORPORATE SOURCE: Faculty of Health Sciences, Department of Medicine and

Geriatrics, Semmelweis University, Budapest, H-1135,

Hung.

SOURCE: European Journal of Pharmacology (2001), 414(1), 9-22

CODEN: EJPHAZ; ISSN: 0014-2999

PUBLISHER: Elsevier Science B.V. DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

AB A review with many refs. The aim of our review is to summarize common genetic variations of some receptors assocd. with clin. consequences, which were not outlined in the previous special issue of this journal. Because of the multiple pathomechanisms of diseases, a set of genetic variation can play a role in the development of pathol. conditions. From the data available three articles would merit a greater interest. In systemic lupus erythematosus the assocns. related to some polymorphisms of Fc-, tumor necrosis factor (TNF) .alpha.- and interferon receptor may explore new autoimmunol. and inflammatory pathomechanisms. In the endocrinol., the androgen receptor repeat polymorphism will exert significant aspects in the development of prostate cancer. The pleiotropic responsibility of vitamin D3 receptor polymorphism in the pathogenesis of immunol. disorders (primary biliary

cirrhosis, inflammatory bowel disease, type

1 diabetes mellitus) and of malignancies (malignant melanoma, breast cancer) shed light on the importance of common nuclear receptors. Nevertheless, in the future studies a more consistent approach minimizing requirement bias in the selection of patients will approve our understanding the role of genetic influence on the pathogenesis of diseases.

REFERENCE COUNT: 84 THERE ARE 84 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 2000:588387 CAPLUS

DOCUMENT NUMBER: 134:84446

SOURCE:

PUBLISHER:

TITLE: Vitamin D receptor gene polymorphism: association with

Crohn's disease susceptibility

AUTHOR(S): Simmons, J. D.; Mullighan, C.; Welsh, K. I.; Jewell,

D. P.

CORPORATE SOURCE: Gastroenterology Unit, Radcliffe Infirmary, University

of Oxford, Oxford, OX2 6HE, UK Gut (2000), 47(2), 211-214

CODEN: GUTTAK; ISSN: 0017-5749

BMJ Publishing Group

DOCUMENT TYPE: Journal LANGUAGE: English

AB The vitamin D receptor (VDR) gene represents a strong positional candidate susceptibility gene for inflammatory bowel

disease (IBD). The VDR gene maps to a region on chromosome 12 that has been shown to be linked to IBD by genome screening techniques.

It is the cellular receptor for 1,25(OH)2 vitamin D3 (calcitriol) which has a wide range of different regulatory effects on the immune system. IBD is characterized by activation of the mucosal immune system. The assocn. of polymorphisms in the VDR gene with susceptibility to IBD were studied. The subjects were European Caucasoids158 patients with ulcerative colitis, 245 with Crohn's disease, and 164 cadaveric renal allograft donor controls. Single nucleotide polymorphisms (TaqI, ApaI, and FokI) in VDR were typed in patients with Crohn's disease, ulcerative

colitis, and controls by polymerase chain reaction with sequence specific primers. There were significantly more homozygotes for the TaqI polymorphism at codon 352 of exon 8 (genotype "tt") among patients with Crohn's disease (frequency 0.22) than patients with ulcerative colitis (0.12) or controls (0.12) (odds ratio 1.99; 95% confidence interval 1.14-3.47; p=0.017). This study provides preliminary evidence for a genetic assocn. between Crohn's disease susceptibility and a gene that lies within one of the candidate regions detd. by linkage anal.

REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 2000:246169 CAPLUS

DOCUMENT NUMBER: 132:260649

TITLE: Increase of bone mineral density with sodium fluoride

in patients with Crohn's disease

AUTHOR(S): Von Tirpitz, Christian; Klaus, Jochen; Bruckel,

Joachim; Rieber, Andrea; Scholer, Andre; Adler, Guido;

Bohm, Bernhard O.; Reinshagen, Max

CORPORATE SOURCE: Department of Medicine, University of Ulm, Ulm, 89081,

Germany

SOURCE: European Journal of Gastroenterology & Hepatology

(2000), 12(1), 19-24

CODEN: EJGHES; ISSN: 0954-691X Lippincott Williams & Wilkins

DOCUMENT TYPE: Journal LANGUAGE: English

PUBLISHER:

· AB Background and aims: Low bone d. with an increased risk of vertebral fractures is a frequent complication in inflammatory bowel disease. Since the etiol. of osteopathia in these patients is different compared to postmenopausal or steroid-induced osteoporosis, no treatment strategy is established. Supplementation of calcium and vitamin D has been shown to prevent further bone loss, but no data are available showing the anabolic effect of sodium fluoride in Crohn's disease. Methods: We carried out a one-year prospective clin. trial in 33 patients with chronic active Crohn's disease who were randomly assigned to receive either calcium (500 mg b.i.d.) and 1000 IU vitamin D3 only, or retarded-release sodium fluoride (25 mg t.i.d.) addnl. The diagnosis of Crohn's disease had been made at least two years ago, and all patients had received systemic high-dose steroid therapy during the previous year. Eleven of 15 patients who received calcium/vitamin D and 15 of 18 patients who addnl. received sodium fluoride completed the study. The primary endpoint of the study was the increase of bone mineral d., measured by dual energy x-ray absorptiometry (DXA) after one year of treatment. Bone-specific alk. phosphatase and osteocalcin were used as markers for bone turnover. Results: In the calcium/vitamin D only group, bone d. was not significantly changed after one year of treatment, whereas in the calcium/vitamin D/fluoride group, bone d. of the lumbar spine increased from -1.39.+-.0.3 (Z-score, mean .+-. SEM) to -0.65.+-.0.3 (P<0.05) after one year of treatment. Increase of bone d. was pos. correlated to the osteoblastic markers bone-specific alk. phosphatase (r=0.53) and osteocalcin (r=0.43). Conclusions: Sodium fluoride in combination with vitamin D and calcium is an effective, well-tolerated and inexpensive treatment to increase lumbar bone d. in patients with chronic active Crohn's disease and osteoporosis. REFERENCE COUNT: 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS

=> => d his

(FILE 'HOME' ENTERED AT 15:56:20 ON 07 NOV 2002)

FILE 'CAPLUS' ENTERED AT 15:56:26 ON 07 NOV 2002

L1 2916 S INFLAMMATORY BOWEL DISEASE

L2 20243 S VITAMIN D

L3 8681 S VITAMIN D3 L4 17 S L1 AND L2

L5 4 S L1 AND L3

=> d 117 1-17 ibib hitstr abs

L17 NOT FOUND

The L-number entered has not been defined in this session, or it has been deleted. To see the L-numbers currently defined in this session, enter DISPLAY HISTORY at an arrow prompt (=>).

=> d 14 1-17 ibib hitstr abs

L4 ANSWER 1 OF 17 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 2002:435941 CAPLUS

DOCUMENT NUMBER: 137:108032

TITLE: Interleukin-2 is one of the targets of

1,25-dihydroxyvitamin D3 in the immune system

AUTHOR(S): Bemiss, Candace J.; Mahon, Brett D.; Henry, Adam;

Weaver, Veronika; Cantorna, Margherita T.

CORPORATE SOURCE: Department of Nutrition, The Pennsylvania State

University, College of Health and Human Development,

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

University Park, PA, 16802, USA

SOURCE: Archives of Biochemistry and Biophysics (2002),

402(2), 249-254

CODEN: ABBIA4; ISSN: 0003-9861

Elsevier Science PUBLISHER:

DOCUMENT TYPE: Journal English LANGUAGE:

Interleukin (IL)-2 knockout (KO) mice, which spontaneously develop

symptoms of inflammatory bowel disease

similar to ulcerative colitis in humans, were made vitamin

D deficient (D-) or vitamin D sufficient (D+)

or were supplemented with 1,25-dihydroxyvitamin D3 (1,25D3). 1,25-Dihydroxyvitamin D3 supplementation, but not vitamin

D supplementation, reduced the early mortality of IL-2 KO mice.

However, colitis severity was not different in D-, D+, or 1,25D3 IL-2 KO

mice. Cells from D- IL-2 KO mice produced more interferon (IFN) - gamma. than cells from all other mice. Con A-induced proliferation was

upregulated in IL-2 KO mice and downregulated in wildtype (WT) mice fed

All other measured immune responses in cells from IL-2 KO mice

were unchanged by vitamin D status. In vitro addn. of

1,25-dihydroxyvitamin D3 significantly reduced the prodn. of IL-10 and IFN-.gamma. in cells from D- and D+ WT mice. Conversely, IFN-.gamma. and IL-10 prodn. in cells from IL-2 KO mice were refractory to in vitro

1,25-dihydroxyvitamin D3 treatments. In the absence of IL-2,

vitamin D was ineffective for suppressing colitis and

ineffective for the in vitro downregulation of IL-10 or IFN-.gamma. prodn. One target of 1,25-dihydroxyvitamin D3 in the immune system is the IL-2

gene.

REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 2 OF 17 CAPLUS COPYRIGHT 2002 ACS

2002:425735 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 137:41696

TITLE: Osteoporosis in inflammatory bowel

disease: Effect of calcium and vitamin

D with or without fluoride

Abitbol, V.; Mary, J. Y.; Roux, C.; Soule, J. C.; AUTHOR(S):

Belaiche, J.; Dupas, J.-L.; Gendre, J. P.; Lerebours,

E.; Chaussade, S.

CORPORATE SOURCE: The Groupe D'Etudes Therapeutiques Des Affections

Inflammatoires Digestives (GETAID), Service de

Gastroenterologie, Hopital Cochin, Paris, 75014, Fr.

SOURCE: Alimentary Pharmacology and Therapeutics (2002),

16(5), 919-927

CODEN: APTHEN; ISSN: 0269-2813

Blackwell Science Ltd. PUBLISHER:

DOCUMENT TYPE: Journal LANGUAGE: English

Previous data have indicated low bone formation as a mechanism of

osteoporosis in inflammatory bowel disease.

Fluoride can stimulate bone formation. The aim was to assess the effect of fluoride supplementation on lumbar spine bone mineral d. in

osteoporotic patients with inflammatory bowel

disease treated in parallel with calcium and vitamin

In this prospective, randomized, double-blind, parallel and

placebo-controlled study, 94 patients with inflammatory

bowel disease (lumbar spine T score below - 2 std.

deviations, normal serum 250H vitamin D), with a

median age of 35 yr, were included. Bone mineral d. was measured by dual-energy X-ray absorptiometry. Patients were randomized to receive daily either sodium monofluorophosphate (150 mg, n = 45) or placebo (n = 45)

49) for 1 yr, and all received calcium (1 g) and vitamin

D (800 IU). The relative change in bone mineral d. from 0 to 12

mo was tested in each group (fluoride or placebo) and compared between the

groups. Lumbar spine bone mineral d. increased significantly in both groups after 1 yr: 4.8 + ... 5.6% (n = 29) and 3.2 + ... 3.8% (n = 31) in the calcium-vitamin D-fluoride and calcium-

vitamin D-placebo groups, resp. (P < 0.001 for each

There was no difference between the groups (P = 0.403). Similar results were obsd. according to corticosteroid intake or disease activity. Calcium and vitamin D seem to increase lumbar spine d.

in osteoporotic patients with inflammatory bowel disease: fluoride does not provide further benefit.

REFERENCE COUNT: THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS 39

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 3 OF 17 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 2002:217534 CAPLUS

137:107457 DOCUMENT NUMBER:

TITLE: Vitamin D status, parathyroid

hormone and bone mineral density in patients with

inflammatory bowel disease

Jahnsen, J.; Falch, J. A.; Mowinckel, P.; Aadland, E. AUTHOR(S): CORPORATE SOURCE: Medical Dept. and Hormone Laboratory, Aker University

Hospital, Oslo, NO-0514, Norway

SOURCE: Scandinavian Journal of Gastroenterology (2002),

37(2), 192-199

CODEN: SJGRA4; ISSN: 0036-5521

PUBLISHER: Taylor & Francis

DOCUMENT TYPE: Journal LANGUAGE: English

Although the pathogenesis of osteoporosis in inflammatory

bowel disease (IBD) is not established, vitamin

D deficiency and disturbances in calcium metab. are thought to be of importance, esp. in Crohn disease (CD). Vitamin D status is assessed and the relation between indexes of calcium metab., including 25-hydroxyvitamin D and parathyroid hormone concns., and bone mineral d. (BMD) in CD and ulcerative colitis (UC) are examd. 60 Patients with CD and 60 with UC were investigated. Each group comprised 24 men and 36 women. Vitamin D metabolites, parathyroid hormone and biochem. markers of bone metab. were measured in blood and urine.

Lumbar spine, femoral neck and total body BMD were measured by dual x-ray absorptiometry (DXA) and Z-scores were obtained by comparison with ageand sex-matched normal values. Results: Vitamin D

deficiency (25-hydroxyvitamin D3 <30 nmol/1) was present in 27% of patients with CD and in 15% with UC. Furthermore, CD patients had a significantly lower mean concn. of 25-hydroxyvitamin D3 compared with UC patients. Vitamin D status was not related to BMD at

any of the skeletal sites measured. Secondary hyperparathyroidism was found in 10 out of 27 patients with CD after small-bowel resections. No differences were found in serum osteocalcin and urine pyridinoline between patients with CD and those with UC. Conclusions: Hypovitaminosis D is common in CD patients. Patients with CD and small-bowel resections are at risk of developing secondary hyperparathyroidism and low BMD.

REFERENCE COUNT: THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS 37 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 4 OF 17 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 2001:912535 CAPLUS

DOCUMENT NUMBER: 136:134027

TITLE: Vitamin D: its role and uses in

immunology

AUTHOR(S): Deluca, Hector F.; Cantorna, Margherita T. CORPORATE SOURCE:

Department of Biochemistry, University of Wisconsin-Madison, Madison, WI, 53706, USA

SOURCE: FASEB Journal (2001), 15(14), 2579-2585

CODEN: FAJOEC; ISSN: 0892-6638

Biology DOCUMENT TYPE: Journal; General Review LANGUAGE: English A review and discussion. In recent years there has been an effort to understand possible noncalcemic roles of vitamin D, including its role in the immune system and, in particular, on T cell-medicated immunity. Vitamin D receptor is found in significant concns. in the T lymphocyte and macrophage populations. However, its highest concn. is in the immature immune cells of the thymus and the mature CD-8 T lymphocytes. The significant role of vitamin D compds. as selective immunosuppressants is illustrated by their ability to either prevent or markedly suppress animal models of autoimmune disease. Results show that 1,25-dihydroxyvitamin D3 can either prevent or markedly suppress exptl. autoimmune encephalomyelitis, rheumatoid arthritis, systemic lupus erythematosus, type I diabetes, and inflammatory bowel disease. In almost every case, the action of the vitamin D hormone requires that the animals be maintained on a normal or high calcium diet. Possible mechanisms of suppression of these autoimmune disorders by the vitamin D hormone have been presented. The vitamin D hormone stimulates transforming growth factor TGF.beta.-1 and interleukin 4 (IL-4) prodn., which in turn may suppress inflammatory T cell activity. In support of this, the vitamin D hormone is unable to suppress a murine model of the human disease multiple sclerosis in IL-4-deficient mice. The results suggest an important role for vitamin D in autoimmune disorders and provide a fertile and interesting area of research that may yield important new therapies. REFERENCE COUNT: THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS 40 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT ANSWER 5 OF 17 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 2001:472660 CAPLUS DOCUMENT NUMBER: 135:56067 Use of biologically active vitamin D TITLE: compounds for the prevention and treatment of inflammatory bowel disease Hayes, Colleen E.; Nashold, Faye E. INVENTOR(S): Northern Lights Pharmaceuticals, LLC, USA PATENT ASSIGNEE(S): SOURCE: PCT Int. Appl., 54 pp. CODEN: PIXXD2 DOCUMENT TYPE: Patent LANGUAGE: English FAMILY ACC. NUM. COUNT: PATENT INFORMATION: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG US 6358939 20020319 US 1999-469985 19991221 B1 EP 2000-986687 20001221 EP 1240136 20020918 Α1

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,

IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

Federation of American Societies for Experimental

- PUBLISHER:

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US 2002128241 A1
NO 2002002974 A
                                  20020912
                                                     US 2001-36819
                                                                         20011221
                                                     NO 2002-2974
                                  20020820
                                                                         20020620
PRIORITY APPLN. INFO.:
                                                 US 1999-469985 A 19991221
                                                 WO 2000-US34913 W 20001221
                             MARPAT 135:56067
OTHER SOURCE(S):
      Methods of treating inflammatory bowel disease
      are described, and in particular the prevention and treatment of
      inflammatory bowel disease in humans as well
      as other animals. These methods involve the administration of biol.
      active vitamin D compds., and therapeutic compns.
      thereof, so that the symptoms of Inflammatory Bowel
      Disease are reduced or relieved.
                                      THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS
                              4
REFERENCE COUNT:
                                      RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
      ANSWER 6 OF 17 CAPLUS COPYRIGHT 2002 ACS
                              2001:435039 CAPLUS
ACCESSION NUMBER:
                              135:41381
DOCUMENT NUMBER:
                              Treatment of inflammatory bowel
TITLE:
                              disease with vitamin D
                              compounds
INVENTOR(S):
                              Cantorna, Margherita T.
PATENT ASSIGNEE(S):
                              The Penn State Research Foundation, USA
                              PCT Int. Appl., 33 pp.
SOURCE:
                              CODEN: PIXXD2
DOCUMENT TYPE:
                              Patent
                              English
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                                                  APPLICATION NO. DATE
                     KIND DATE
      PATENT NO.
                                 -----
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                                                    -----
      WO 2001042205 A2
                                  20010614
                                                   WO 2000-US42393 20001130
      WO 2001042205
                           A3 20020321
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                          A2 20020828 EP 2000-992552 20001130
      EP 1233942
           R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
                                                                                      12/2/1997
PRIORITY APPLN. INFO.:
                                                 US 1999-168501P P 19991202
                                                 US 2000-197827P P 20000414
                                                 US 2000-208632P P 20000601
                                                 US 2000-231906P P 20000911
                                                 WO 2000-US42393 W 20001130
OTHER SOURCE(S):
                              MARPAT 135:41381
     A method of treating inflammatory bowel
      disease, particularly ulcerative colitis and Crohn's disease, is
      disclosed. The method involves administering a vitamin
     D compd. in an amt. effective to treat the disease. The
      administration of a vitamin D compd. also prevents the
     development of or delays the onset of inflammatory bowel
     disease in susceptible individuals.
     ANSWER 7 OF 17 CAPLUS COPYRIGHT 2002 ACS
T.4
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ACCESSION NUMBER: 2001:255853 CAPLUS DOCUMENT NUMBER: 134:271278

.TITLE: Nutritional composition for treating inflammatory

bowel diseases

INVENTOR(S): Snowden, Robert B.

PATENT ASSIGNEE(S): Snowden-Sutton Associates, Inc., USA

SOURCE: U.S., 6 pp. CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6214373	В1	20010410	US 1999-414666	19991007
WO 2001024642	A1	20010412	WO 2000-US27404	20001005

W: CA

RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

PRIORITY APPLN. INFO.: US 1999-414666 A 19991007

AB A nutritional compn. and method useful for treatment of inflammatory bowel diseases is disclosed, the compn. comprising selected vitamins and mineral salts for oral administration to a subject having an inflammatory bowel disease. The compn. comprises an excess of vitamin D and vitamin B12, contains vitamin C and iron in quantities promoting good absorption, contains water miscible forms of the fat-sol. vitamins, and no phosphate or carbonate salts. Preferably, the iron is present as ferrous fumarate. And, preferably the compn. is essentially free of magnesium. Preferred compn. consists of retinyl acetate 2,500, cholecalciferol 400, dl-.alpha.-tocopherol acetate 75 IU, phytonadione 40 .mu.g, ascorbic acid 100, thiamine mononitrate 5, riboflavin 5, pyridoxine hydrochloride 5 mg, cyanocobalamin 500 .mu.g, folic acid 0.2, niacinamide 10, biotin 0.15, pantothenic acid 5, iron 15, calcium 100, zinc 11.25 mg, selenium .mu.g, copper 1, manganese 1 mg, and iodine 75 .mu.g.

REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 17 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 2000:787638 CAPLUS

DOCUMENT NUMBER: 134:41518

TITLE: 1,25-Dihydroxycholecalciferol prevents and ameliorates

symptoms of experimental murine inflammatory

bowel disease

AUTHOR(S): Cantorna, Margherita T.; Munsick, Carey; Bemiss,

Candace; Mahon, Brett D.

CORPORATE SOURCE: Department of Nutrition, College of Health and Human

Development, Pennsylvania State University, University

Park, PA, 16802, USA

SOURCE: Journal of Nutrition (2000), 130(11), 2648-2652

CODEN: JONUAI; ISSN: 0022-3166

PUBLISHER: American Society for Nutritional Sciences

DOCUMENT TYPE: Journal LANGUAGE: English

AB The amt. of vitamin D available from sunshine exposure

or diet may be an important factor affecting the development of

inflammatory bowel disease (IBD) in humans.

We tested this hypothesis in an exptl. animal model of IBD. Interleukin (IL)-10 knockout (KO) mice, which spontaneously develop symptoms

resembling human IBD, were made vitamin D deficient,

vitamin D sufficient, or supplemented with active

vitamin D (1,25-dihydroxycholecalciferol). The

vitamin D-deficient mice rapidly developed diarrhea and

wasting disease with mortality. The vitamin D

Supplementation -sufficient mice did not develop diarrhea, waste, or die.

with 50 IU cholecalciferol (5.0 .mu.g/day) or 1,25-dihydroxycholecalciferol (0.005 .mu.g/day) ameliorated the symptoms of IBD in mice. The 1,25-dihydroxycholecalciferol treatment (0.2 .mu.g/day) for as little as 2 wk blocked the progression and ameliorated the symptoms in

mice with already established IBD.

33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 9 OF 17 CAPLUS COPYRIGHT 2002 ACS 2000:588387 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 134:84446

TITLE: Vitamin D receptor gene

polymorphism: association with Crohn's disease

susceptibility

Simmons, J. D.; Mullighan, C.; Welsh, K. I.; Jewell, AUTHOR(S):

Gastroenterology Unit, Radcliffe Infirmary, University CORPORATE SOURCE:

of Oxford, Oxford, OX2 6HE, UK

SOURCE: Gut (2000), 47(2), 211-214

CODEN: GUTTAK; ISSN: 0017-5749

BMJ Publishing Group PUBLISHER:

DOCUMENT TYPE: Journal LANGUAGE: English

The vitamin D receptor (VDR) gene represents a strong positional candidate susceptibility gene for inflammatory

bowel disease (IBD). The VDR gene maps to a region on chromosome 12 that has been shown to be linked to IBD by genome screening techniques. It is the cellular receptor for 1,25(OH)2 vitamin D3 (calcitriol) which has a wide range of different regulatory effects on the immune system. IBD is characterized by activation of the mucosal immune system. The assocn. of polymorphisms in the VDR gene with susceptibility to IBD were studied. The subjects were European Caucasoids158 patients with ulcerative colitis, 245 with Crohn's disease, and 164 cadaveric renal allograft donor controls. Single nucleotide polymorphisms (TaqI, ApaI, and FokI) in VDR were typed in patients with Crohn's disease, ulcerative colitis, and controls by polymerase chain reaction with sequence specific primers. There were significantly more homozygotes for the TaqI polymorphism at codon 352 of exon 8 (genotype "tt") among patients with Crohn's disease (frequency 0.22) than patients with ulcerative colitis (0.12) or controls (0.12) (odds ratio 1.99; 95% confidence interval 1.14-3.47; p=0.017). This study provides preliminary evidence for a

lies within one of the candidate regions detd. by linkage anal.

REFERENCE COUNT: THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS 22 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

genetic assocn. between Crohn's disease susceptibility and a gene that

ANSWER 10 OF 17 CAPLUS COPYRIGHT 2002 ACS 2000:246169 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 132:260649

TITLE: Increase of bone mineral density with sodium fluoride

in patients with Crohn's disease

AUTHOR(S): Von Tirpitz, Christian; Klaus, Jochen; Bruckel,

Joachim; Rieber, Andrea; Scholer, Andre; Adler, Guido;

Bohm, Bernhard O.; Reinshagen, Max

CORPORATE SOURCE: Department of Medicine, University of Ulm, Ulm, 89081,

Germany

SOURCE: European Journal of Gastroenterology & Hepatology

(2000), 12(1), 19-24

CODEN: EJGHES; ISSN: 0954-691X Lippincott Williams & Wilkins

DOCUMENT TYPE: Journal LANGUAGE: English

PUBLISHER:

Background and aims: Low bone d. with an increased risk of vertebral AB fractures is a frequent complication in inflammatory bowel disease. Since the etiol. of osteopathia in these patients is different compared to postmenopausal or steroid-induced osteoporosis, no treatment strategy is established. Supplementation of calcium and vitamin D has been shown to prevent further bone loss, but no data are available showing the anabolic effect of sodium fluoride in Crohn's disease. Methods: We carried out a one-year prospective clin. trial in 33 patients with chronic active Crohn's disease who were randomly assigned to receive either calcium (500 mg b.i.d.) and 1000 IU vitamin D3 only, or retarded-release sodium fluoride (25 mg t.i.d.) addnl. The diagnosis of Crohn's disease had been made at least two years ago, and all patients had received systemic high-dose steroid therapy during the previous year. Eleven of 15 patients who received calcium/vitamin D and 15 of 18 patients who addnl. received sodium fluoride completed the study. The primary endpoint of the study was the increase of bone mineral d., measured by dual energy x-ray absorptiometry (DXA) after one year of treatment. Bone-specific alk. phosphatase and osteocalcin were used as markers for bone turnover. Results: In the calcium/vitamin D only group, bone d. was not significantly changed after one year of treatment, whereas in the calcium/vitamin D/fluoride group, bone d. of the lumbar spine increased from -1.39.+-.0.3 (Z-score, mean .+-. SEM) to -0.65.+-.0.3 (P<0.05) after one year of treatment. Increase of bone d. was pos. correlated to the osteoblastic markers bone-specific alk. phosphatase (r=0.53) and osteocalcin (r=0.43). Conclusions: Sodium fluoride in combination with vitamin D and calcium is an effective, well-tolerated and inexpensive treatment to increase lumbar bone d. in patients with chronic active Crohn's disease and osteoporosis. REFERENCE COUNT: THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS 48 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 11 OF 17 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2000:242585 CAPLUS

DOCUMENT NUMBER: 132:264493

TITLE: Use of macro- and micronutrients for nutrition support

in inflammatory bowel

disease

AUTHOR(S): Alpers, David H.

CORPORATE SOURCE: Department of Medicine/Gastroenterology, Washington

University School of Medicine, St. Louis, MO, USA

SOURCE: Nestle Nutrition Workshop Series, Clinical &

Performance Programme (1999), 2(Inflammatory Bowel

Diseases), 155-170

CODEN: NNWSFV; ISSN: 1422-7584

PUBLISHER: S. Karger AG

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

AB A review with 41 refs. followed by a discussion with 4 refs. This article reviews the need for and use of enteral and total parenteral nutrition in inflammatory bowel disease as adjunctive (not

primary) treatment, and the provision of macronutrients parenterally at home. In addn., the recognition of deficiency states and use of

cobalamin, iron, calcium and vitamin D are discussed.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 12 OF 17 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 2000:144772 CAPLUS

DOCUMENT NUMBER: 132:189689

TITLE: Bioreductive conjugates for drug targeting

INVENTOR(S): Adams, Ged; Blake, David; Naughton, Declan; Stratford,

Ian

. PATENT ASSIGNEE(S): Theramark Limited, UK; Adams, Margaret

SOURCE: PCT Int. Appl., 48 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

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APPLICATION NO. DATE
      PATENT NO.
                         KIND DATE
      WO 2000010610 A2 20000302 WO 1999-GB2606 19990819
           W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
               CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD,
                MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK,
          RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                           A1 20000314
                                                    AU 1999-54296
                                                                          19990819
      AU 9954296
                                                  GB 1998-18027 A 19980819
PRIORITY APPLN. INFO.:
                                                                       A 19980820
                                                  GB 1998-18156
                                                  WO 1999-GB2606 W 19990819
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OTHER SOURCE(S): MARPAT 132:189689

AB The use of a bioreductive conjugate comprised of a noncytotoxic bioreductive moiety having linked thereto at least one therapeutic agent, and salts thereof, is disclosed for the healing of wounds and the treatment of fibrotic disorders, ulcerative colitis, inflammatory bowel disease, epilepsy, cardiovascular reperfusion injury, cerebral reperfusion injury, hypertension, cystic fibrosis, psoriasis, para-psoriasis, peptic ulcers, gastric ulcers, duodenal ulcers, diabetic ulcers dementia, oncol., AIDS, rheumatoid arthritis, diabetes, and ischemia. Various specific conjugates for treating these conditions are also disclosed.

L4 ANSWER 13 OF 17 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1999:77538 CAPLUS

DOCUMENT NUMBER: 130:139510

TITLE: Preparation of dihomo-seco-cholestanes with two

unsaturated bonds in the side chain

INVENTOR(S): Barbier, Pierre; Mohr, Peter; Muller, Marc; Self,

Christopher

PATENT ASSIGNEE(S): F.Hoffmann-La Roche A.-G., Switz.

SOURCE: PCT Int. Appl., 51 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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PATENT NO. KIND DATE APPLICATION NO. DATE

WO 9903828 A1 19990128 WO 1998-EP4293 19980710

W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

AU 9888602 A1 19990210 AU 1998-88602 19980710
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EP 1998-940201 19980710 20000510 EP 998455 Αl R: DE, ES, FR, GB, IT JP 2000-503057 19980710 T2 20010731 JP 2001510183 19991130 US 1998-115188 19980714 US 5994569 Α EP 1997-112225 19970717 PRIORITY APPLN. INFO.: Α WO 1998-EP4293 19980710 W

OTHER SOURCE(S): MARPAT 130:139510

GI

Me 
$$_{\rm B1_B2CR^2R^3OH}$$
 Me  $_{\rm Me}$   $_{\rm Me$ 

Polyunsatd. 24a, 24b-dihomo-9, 10-secocholestane derivs. of formula I [B1, B2 = CH=CH, C.tplbond.C; T = CH2, CH2CH2; X = H2, CH2; R1 = H, F, OH; R2, R3 = alkyl, CF3; CR2R3 = cycloalkyl] are prepd. and are useful in the treatment or prevention of vitamin D dependent disorders and of IL-12-dependent autoimmune diseases, particularly psoriasis, basal cell carcinomas, disorders of keratinization and keratosis, leukemia, osteoporosis, hyperparathyroidism accompanying renal failure, multiple sclerosis, transplant rejection, graft vs. host disease, rheumatoid arthritis, insulin-dependent diabetes mellitus, inflammatory bowel disease, septic shock and allergic encephalomyelitis. Thus, II was prepd. and was found to have an IC50 for the inhibition of IL-12 prodn. of 10 nM. Pharmaceutical compns. contg. I are described.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 14 OF 17 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 1997:640566 CAPLUS

DOCUMENT NUMBER: 127:268009

TITLE: Milk of transgenic animals containing human

.alpha.1-antitrypsin and use of human

.alpha.1-antitrypsin to treat bile acid-related

diseases

INVENTOR(S): Carlson, Joyce; Janciauskiene, Sabina-Marija

PATENT ASSIGNEE(S): Carlson, Joyce, Swed.; Janciauskiene, Sabina-Marija

SOURCE: PCT Int. Appl., 26 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9734628	A1	19970925	WO 1997-SE465	19970320

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W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
                 DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, MI, MR, NF, SN, TD, TG
                          ML, MR, NE, SN, TD, TG
                                                         19970922
                                                                                        SE 1996-1091
                                                                                                                            19960321
          SE 9601091
                                              Α
                                                                                        AU 1997-21864
                                                                                                                            19970320
          AU 9721864
                                               A1
                                                         19971010
                                                                                   SE 1996-1091
                                                                                                                            19960321
PRIORITY APPLN. INFO.:
                                                                                  WO 1997-SE465
                                                                                                                            19970320
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The use of human .alpha.l-antitrypsin as a foodstuff or as a medicament, AR utilizing its capacity to bind steroids and steroid-like substances, and transporting them in biol. systems is described. Particularly the direct oral administration of the milk of transgenic animals contg. abundant amts. (10-60 g/L) of human .alpha.1-AT to reinstate a defect in intestinal synthesis or to complement the normal physiol. biosynthesis of .alpha.1-AT is described. Such treatment will reduce the total body load of bile acids by increasing their gastrointestinal elimination. It is expected to be beneficial for bile acid-related diseases such as all cholestatic liver diseases, and bile-reflux gastritis. Such treatment is expected to be particularly beneficial in cases of neonatal cholestasis, as newborns circulate large quantities of hydrophobic bile acids which cause liver injury and may contribute to injury of other tissues. It will be protective in cases where bile acids cause tissue injury such as vasculitis, glomerulonephritis, and inflammatory bowel disease. It will be beneficial against diarrhea, in intestinal bacterial overgrowth, and bile-acid malabsorption. Increased gastrointestinal elimination of the steroid structure may also reduce the total body load of cholesterol and thus be efficient in the treatment of hyperlipidemia.

L4 ANSWER 15 OF 17 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 1996:736027 CAPLUS

DOCUMENT NUMBER: 126:14824

TITLE: Corticosteroid-induced bone loss: Prevention and

management

AUTHOR(S): Picado, Cesar; Luengo, Maite

CORPORATE SOURCE: Hospital Clinic i Universitari, Facultat de Medicina,

Barcelona, Spain

SOURCE: Drug Safety (1996), 15(5), 347-359

CODEN: DRSAEA; ISSN: 0114-5916

PUBLISHER: Adis

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

AB A review with 125 refs. Osteoporosis is one of the most serious adverse effects experienced by patients receiving long term corticosteroid therapy. Bone loss occurs soon after corticosteroid therapy is initiated and results from a complex mechanism involving osteoblastic suppression and increased bone resorption. There are a no. of factors that may increase the risk of corticosteroid-induced osteoporosis [smoking, excessive alc. (ethanol) consumption, amenorrhea, relative immobilization, chronic obstructive pulmonary disease, inflammatory bowel disease, hypogonadism in men, organ

transplantation]. The initial assessment of patients about to start taking corticosteroids should include measurement of spinal bone d., urinary calcium level and plasma calcifediol (25-hydroxycholecalciferol) level; serum testosterone levels should also be measured when hypogonadism is suspected. Many different drugs have been used to prevent osteoporosis in patients receiving long-term corticosteroid therapy, including thiazide diuretics, cholecalciferol (vitamin D) metabolites, bisphosphonates, calcitonin, fluoride, estrogens, anabolic steroids and

progesterone. At present, however, published studies have failed to demonstrate a redn. in the rate of fracture using different preventive pharmacol. therapies in patients being treated with corticosteroids on a continuous basis. Among the drugs studied, bisphosphonates (pamidronic acid and etidronic acid) and calcitonin appear to be effective in increasing bone d. Cholecalciferol prepns. have been reported to be effective in some, but not all, studies. Limited data have shown pos. results with thiazide diuretics, estrogen, progesterone and nandrolone. When treating patients with corticosteroids, the lowest ED should be used, with topical corticosteroids used whenever possible. Auranofin may be considered in patients with corticosteroid-dependent asthma. Patients should take as much phys. activity as possible, maintain an adequate daily intake of calcium (1000 mg/day) and cholecalciferol (400 to 800 U/day), stop smoking and avoid excessive alc. intake. It is important to detect and treat hypogonadism in men, if present, and to replace gonadal hormones in postmenopausal women or amenorrheic premenopausal women, and to detect and correct cholecalciferol deficiency. A thiazide diuretic should be considered if hypercalciuria is present (urinary calcium excretion in excess of 4 mg/kg/day). High-risk patients and those with established osteoporosis should be treated with bisphosphonates (cyclical etidronic acid or i.v. pamidronic acid), nasal calcitonin, or calcifediol or calcitriol. Patients receiving cholecalciferol prepns. should be carefully monitored for hypercalciuria and hypercalcemia.

L4 ANSWER 16 OF 17 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1996:672001 CAPLUS

DOCUMENT NUMBER: 125:327076

TITLE: A randomized, placebo-controlled trial of calcium

supplementation for decreased bone density in

corticosteroid-using patients with

inflammatory bowel disease

: A pilot study

AUTHOR(S): Bernstein, C. N.; Seeger, L. L.; Anton, P. A.;

Artinian, L.; Geffrey, S.; Goodman, W.; Belin, T. R.;

Shanahan, F.

CORPORATE SOURCE: Departments Medicine, Radiology and Biostatistics,

University Manitoba, Winnipeg, MB, R3A 1R9, Can. Alimentary Pharmacology and Therapeutics (1996),

SOURCE: Alimentary Pha

10(5), 777-786 CODEN: APTHEN; ISSN: 0269-2813

PUBLISHER: Blackwell DOCUMENT TYPE: Journal LANGUAGE: English

AB Patients with inflammatory bowel disease

(IBD) have a high prevalence of osteoporosis. A no. of studies have found that corticosteroid use is assocd. with the development of osteoporosis in these patients. Calcium supplementation may be of benefit in corticosteroid-induced osteoporosis and calcium may be a nutrient that patients with IBD lack. The aim of this study was to test the benefit of calcium supplementation on bone d. in a pilot study over a 1-yr period, in a group of corticosteroid-using patients with IBD, in a randomized, double-blind, placebo-controlled treatment study. Corticosteroid-using patients with IBD including males over the age of 18 yr and premenopausal females, were randomized to receive either calcium carbonate 1000 mg plus vitamin D 250 IU (Oscal) or an identically matched placebo. Dual energy x-ray absorptiometry measurements of bone d. were obtained at entry and at 1 yr. At entry, and every 3 mo thereafter, serum was collected for the measurement of Hb, biochem. and bone hormones. Simultaneously a 24-h urine collection was analyzed for calcium excretion and creatinine clearance, and a 4-day food record was collected to document dietary calcium and vitamin D ingestion. The authors found a high prevalence of moderately severe decreased bone d. in corticosteroid-using patients with IBD. The dose of prednisone in the

year prior to study entry was inversely correlated with bone d. at the hip (R = -0.67). At study entry serum osteocalcin was inversely correlated with corticosteroid dose in the year prior to the study (R = -0.64) and at study end, directly correlated with the percentage change in spine bone d. (R = 0.59). The dietary calcium intake of these patients was close to the current RDA (recommended daily intake) for premenopausal, post-adolescent adults. Calcium supplementation with small extra doses of vitamin D conferred no obvious benefit to bone d. at the end of 1 yr. There was no correlation between oral calcium ingestion and bone mass measurements. Both the treatment and placebo groups' bone d. remained relatively stable at 1 yr, suggesting that bone loss in corticosteroid-using patients may peak early into the use of the corticosteroids. Calcium supplementation (1000 mg/day) conferred no significant benefit to bone d. at 1 yr in patients with corticosteroid-using IBD patients with osteoporosis. Future investigations should explore other therapeutic avenues that may have greater effects on increasing bone d. in patients who already have considerable osteoporosis.

L4 ANSWER 17 OF 17 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1995:311941 CAPLUS

DOCUMENT NUMBER: 122:78245

TITLE: Bone mineral density and calcium regulating hormones

in patients with inflammatory bowel

disease (Crohn's disease and ulcerative

colitis)

AUTHOR(S): Sharla, S. H.; Minne, H. W.; Lempert, U. G.; Leidig,

G.; Hauber, M.; Raedsch, R.; Ziegler, R.

CORPORATE SOURCE: Dep. Int. Med. IV, Univ. Heidelberg, Bad Pyrmont,

Germany

SOURCE: Experimental and Clinical Endocrinology (1994),

102(1), 44-9

CODEN: EXCEDS; ISSN: 0232-7384

PUBLISHER: Barth
DOCUMENT TYPE: Journal
LANGUAGE: English

Inflammatory bowel disease (Crohn's disease and ulcerative colitis) is assocd. with decreased bone mineral d. and increased risk of osteoporosis. However, the pathogenesis of this bone loss is not yet fully understood. In the present study we measured lumbar bone mineral d. (by dual photon absorptiometry), serum levels of parathyroid hormone (PTH) and vitamin D metabolites, and serum markers of bone turnover (alk. phosphatase and osteocalcin) in 15 patients with Crohn's disease and in 4 patients with ulcerative colitis. The median duration of the disease was 4 yr and the median lifetime steroid dose was 10g of prednisone. We compared our results to a control group of 19 normal persons, who were matched for age and sex to the patients. We found that lumbar bone d. was reduced by 11% in patients compared with control persons (Z-score -0.6 .+-. 0.6 vs. -0.1 .+-. 0.8; In patients, the serum levels of PTH, 25-hydroxyvitamin D3, and calcitriol (1,25(OH)2D3) were significantly reduced compared with control persons. Serum alk. phosphatase activity (AP) was significantly higher in the patients and was inversely related to lumbar bone d. Osteocalcin values were not different between patients and control persons. There was also no difference in serum levels of calcium between the two groups, whereas phosphorus levels were higher in patients. We conclude that malabsorption of calcium was not a primary cause of bone loss in our patients, because we did not find secondary hyperparathyroidism. Accordingly, we did not find a severe vitamin D deficiency, since 25-hydroxyvitamin D3 levels were within the normal range. Therefore, our results favor the hypothesis that glucocorticoid therapy and/or the inflammatory process itself caused changes in bone metab. leading to a neg. bone balance with secondary redn. of PTH and

calcitriol levels.